

FIG. 3

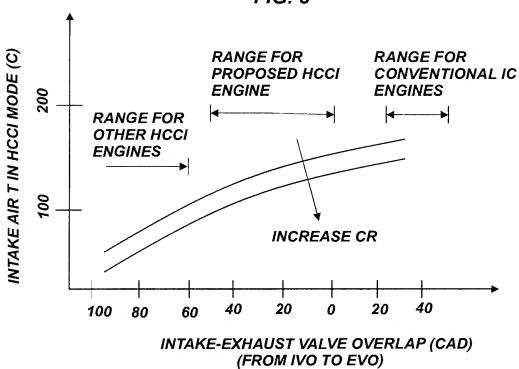


FIG. 4

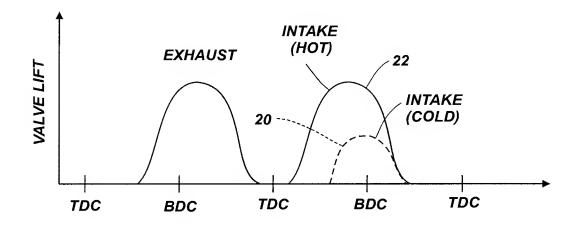


FIG. 5(A)

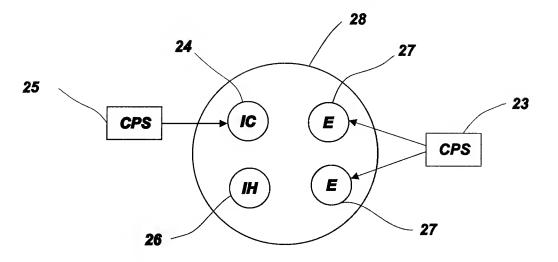
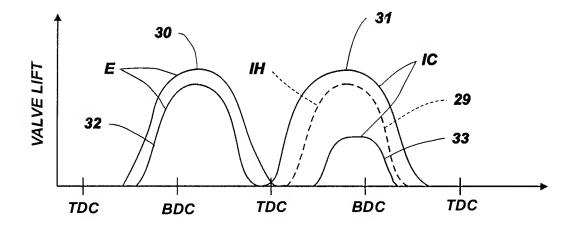
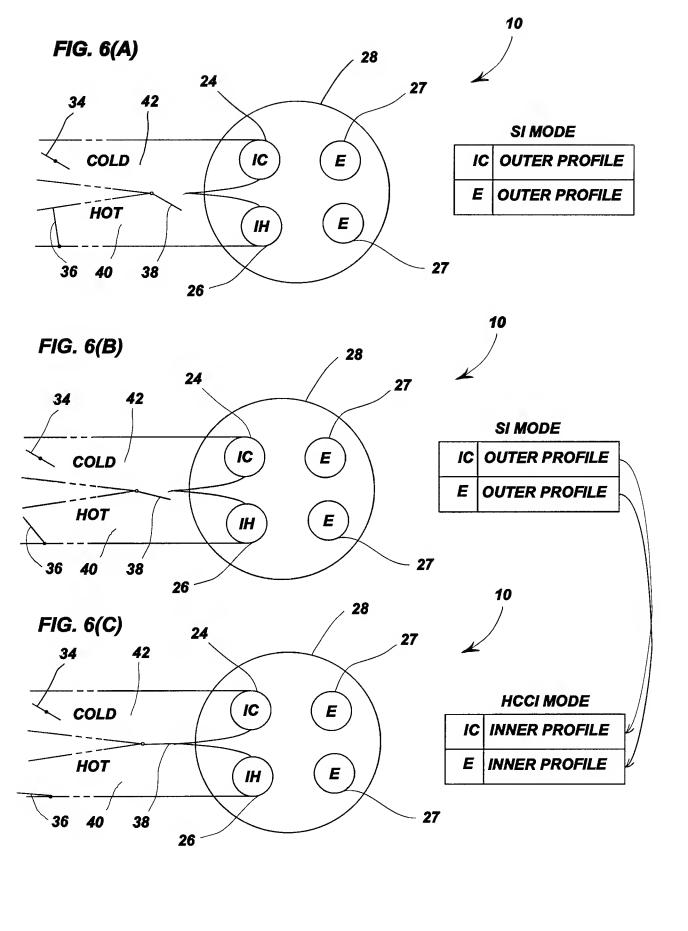


FIG. 5(B)



LIFT PROFILE	EVENT LENGTH (CAD)	NORMALIZED VALVE MAX. LIFT	VALVE OPEN TIMING	VALVE CLOSE TIMING
INTAKE IC-OUTER	280 ~ 320	1	0 ~ 15 CAD BTDC	95 ~ 125 CAD ABDC
INTAKE IC-INNER	150 ~ 210	0.3 ~ 0.7	-50 ~ 0 CAD BTDC	25 ~ 45 CAD ABDC
INTAKE IH	170 ~ 210	1	-35 ~ 0 CAD BTDC	25 ~ 45 CAD ABDC
EXHAUST E-OUTER	230 ~ 250	1	50 ~ 70 CAD BBDC	0 ~ 20 CAD ATDC
EXHAUST E-INNER	190 ~ 220	$0.8\sim0.95$	40 ~ 60 CAD BBDC	-35~ 0 CAD ATDC

FIG. 5(C)



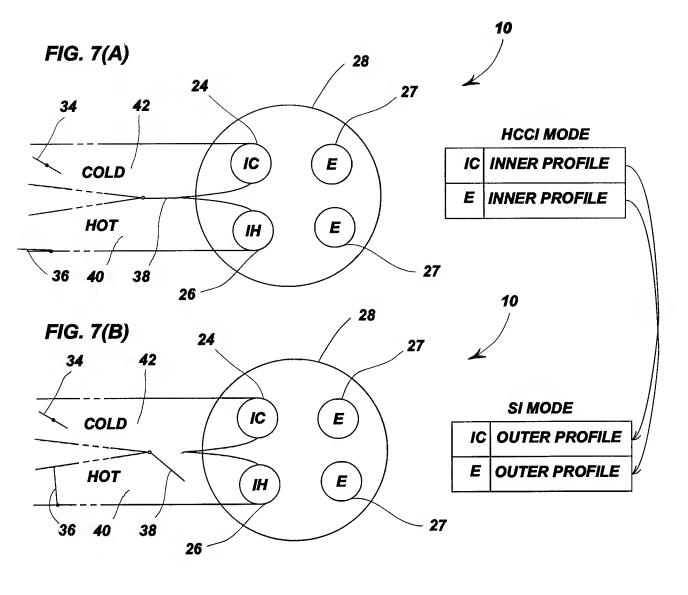


FIG. 8(A)

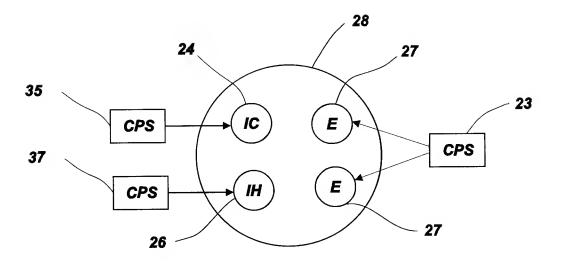
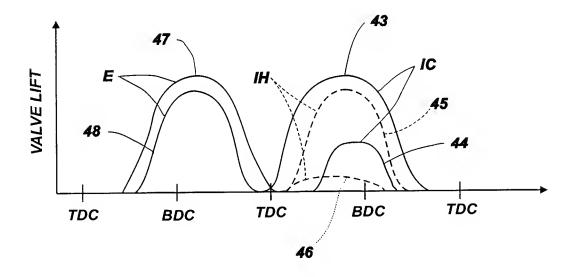
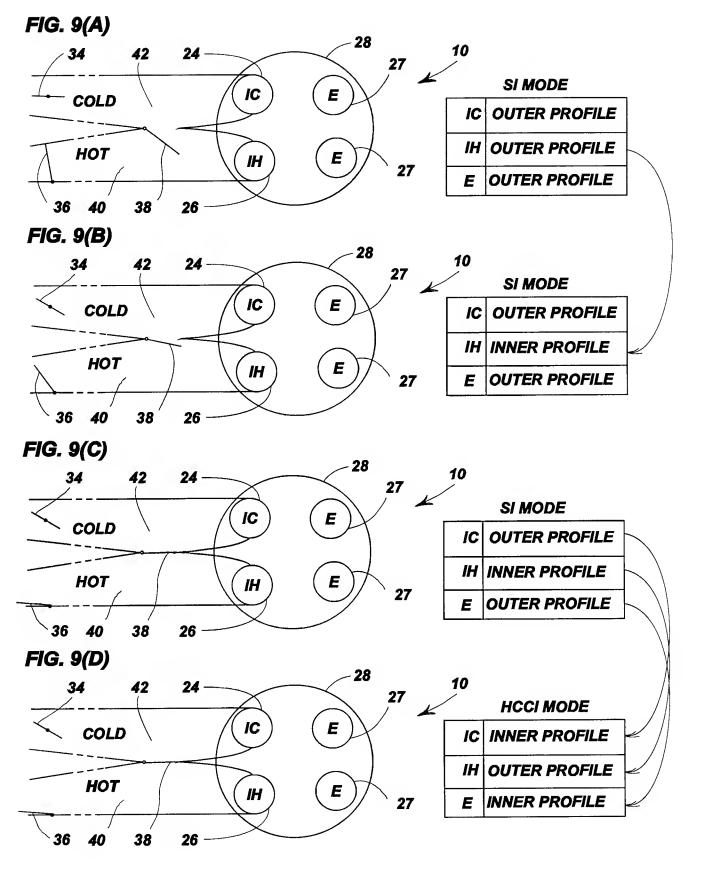


FIG. 8(B)



LIFT PROFILE	EVENT LENGTH (CAD)	NORMALIZED VALVE MAX. LIFT	VALVE OPEN TIMING	VALVE CLOSE TIMING
INTAKE IC-OUTER	280 ~ 320	1	0 ~ 15 CAD BTDC	95 ~ 125 CAD ABDC
INTAKE IC-INNER	150 ~ 210	0.3 ~ 0.7	-50 ~ 0 CAD BTDC	25 ~ 45 CAD ABDC
INTAKE IH-OUTER	170 ~ 210	$0.8\sim0.95$	-35 ~ 0 CAD BTDC	25 ~ 45 CAD ABDC
INTAKE IH-INNER	< 180	< 0.2	-60 ~ 25 CAD BTDC	0 ~ 25 CAD ABDC
EXHAUST E-OUTER	230 ~ 250	1	50 ~ 70 CAD BBDC	0 ~ 20 CAD ATDC
EXHAUST E-OUTER	190 ~ 220	$0.8\sim0.95$	40 ~ 60 CAD BBDC	-35~ 0 CAD ATDC

FIG. 8(C)



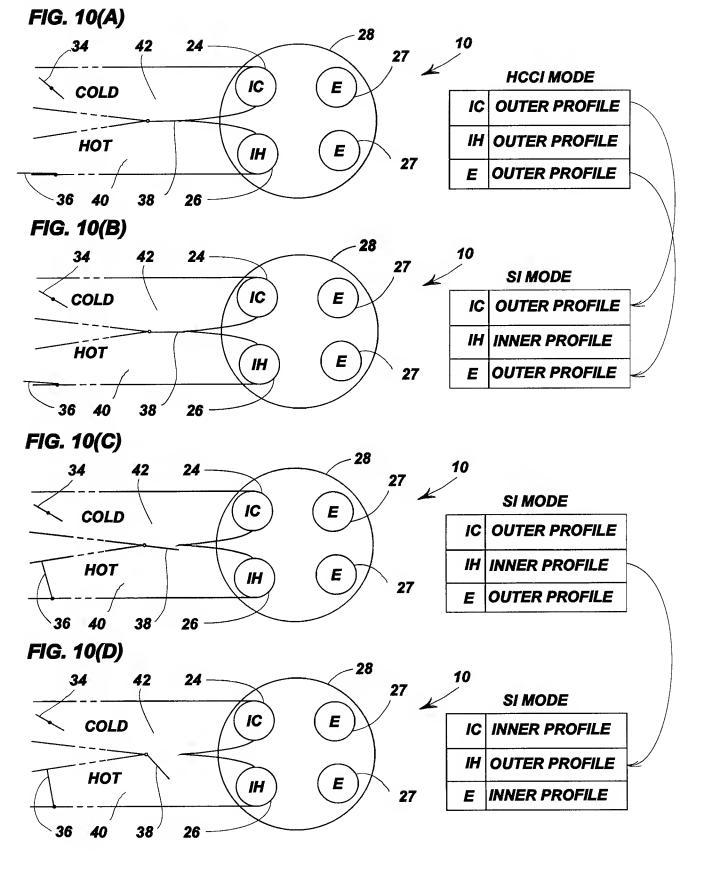


FIG. 11

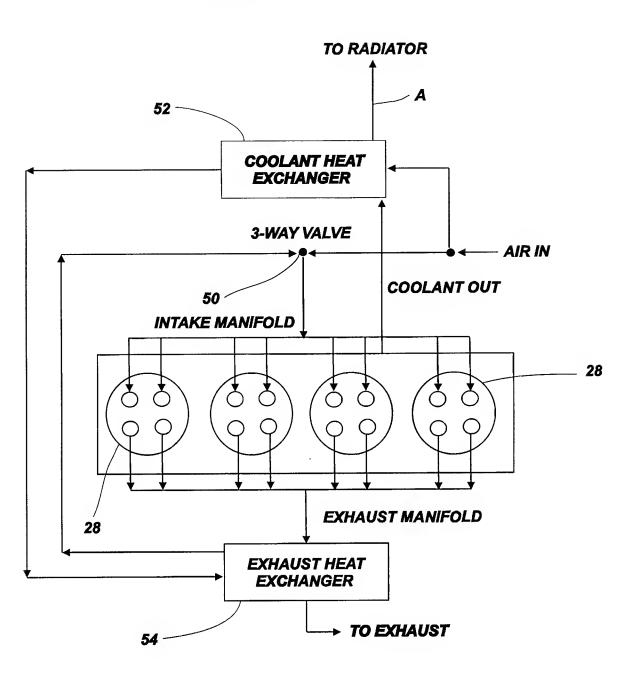
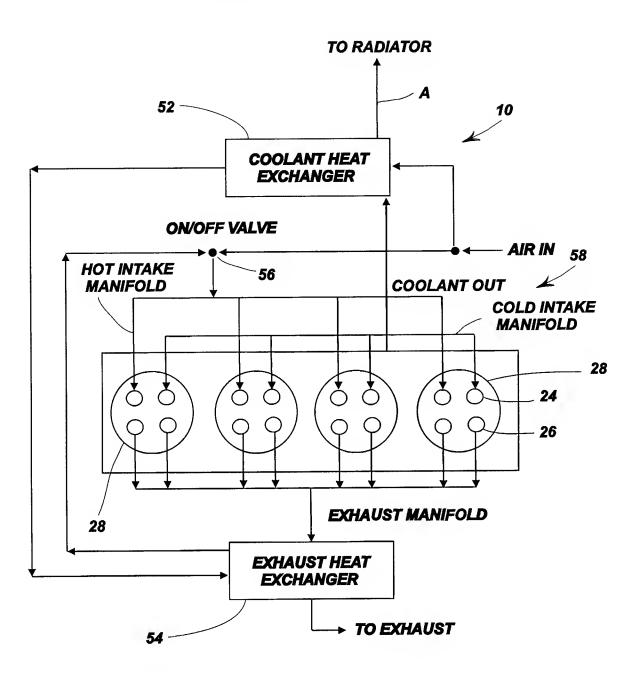


FIG. 12



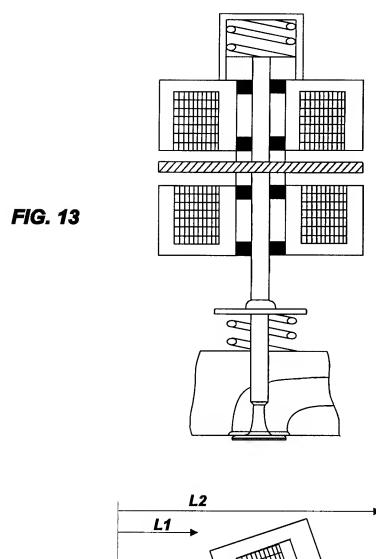


FIG. 14

